

FUEL PRODUCT GRADE INDICATOR

THE SMARTER WAY TO MANAGE PRODUCT GRADES

Safer deliveries. Fewer errors.
Simplified installation.



Designed for Modern Fuel Tankers

A compact, reliable solution for grade selection and compartment control.

Emco Wheaton's Product Grade Indicator (PGI) is a compact selector valve that allows operators to set and verify the fuel grade at each tanker compartment right at the loading point. Engineered for OEMs and tank builders, the PGI integrates seamlessly into road tanker designs to enhance safety, prevent cross-fuelling mistakes, and streamline the loading and unloading process.

Available in both Basic (non-pneumatic) and Pneumatic versions, with 10-position or 20-position grade selection, the PGI provides flexible options to suit any fuel delivery fleet's needs.



Key Benefits:

Enhanced Operator Safety: Drivers can control loading from ground level at the API adapter, avoiding climbing on tankers or stepping over hoses. This reduces fall risks and improves compliance with safety protocols.

Reduced Spillages: Integrated pneumatic control allows immediate access to the Foot Valve at the API envelope, this means an operator can quickly shut off flow at the source if a loading arm or hose coupling leaks, minimizing spillage and environmental hazards.

Lower Risk of Delivery Errors: By clearly indicating the selected fuel grade at the point of loading, the PGI greatly reduces the chance of cross-contamination or loading the wrong product into a compartment.

Simplified Installation: The pneumatic variant combines product grade selection with the bottom valve actuator in one unit. This eliminates long pneumatic runs to a remote-control box and associated fittings, saving assembly time and reducing complexity.

Robust & Reliable: Built from stainless steel, aluminium, and engineered polymer (Delrin), the PGI is lightweight (approx. 1.2 kg) yet extremely durable. It stands up to harsh road tanker environments for a long service life.

Easy Maintenance & Troubleshooting: The modular design and elimination of complex central control manifolds mean faster fault-finding and maintenance. Each PGI can be accessed and serviced independently if needed, without disturbing other controls.

Basic vs. Pneumatic

Flexible Actuation Options

Basic PGI is a stand-alone grade selector device: operators turn the selector dial to display the correct fuel grade for that compartment. It has no integrated pneumatic actuation – making it ideal if you already use a central pneumatic control box or manual Foot Valve controls. The Basic PGI offers a cost-effective solution to provide clear grade identification at each API adaptor, working in tandem with your existing control system.



Basic PGI

Pneumatic PGI offers all the functionality of the Basic plus integrated air valve control. This “two-in-one” unit not only lets the operator choose the product grade label but also functions as a pneumatic push-button to open and close the compartment’s bottom valve. It features an internal visual Open/Close indicator so the operator can confirm Foot Valve status at a glance. The Pneumatic PGI enables single-point operation at each API adaptor – improving safety and convenience by bringing the Foot Valve control right to the point of loading. There’s no need for the driver to step away or handle hoses to operate a remote-control cabinet, resulting in faster turnaround and safer operation.



Pneumatic PGI



10 Positions vs. 20 Positions

The Right Capacity for Your Needs

Both Basic and Pneumatic PGI models come with either 10 or 20 selectable positions, corresponding to the number of fuel grades or products the device can designate per compartment.

10-Position versions accommodate up to ten distinct product grade labels. These are ideal for standard fuel fleets carrying common fuel types (e.g. multiple-grade gasoline, diesel, kerosene, etc.) where large, easy-to-read labels are preferred. The 10-position PGI displays each product name in a full-size window for quick identification under all lighting conditions.

20-Position versions double the selection range to twenty product grades, maximizing flexibility. They incorporate a clever magnifying lens in the viewing window to ensure even the smaller print on the 20-part dial is easily readable. The 20-position PGI is perfect for complex fleet operations, for example when a tanker may need to haul dual fuel contracts or switch between many product types (such as delivering to different customers on outbound and return routes) without physically changing any grade labels. Despite the greater capacity, the 20-position model remains just as compact as the 10-position

To help select the right PGI variant, use the matrix below. Each model is identified by a part number and key attributes. "XX" in the part number denotes the customer's chosen internal label code for the product grade markings (for example, "05" for the standard multi-fuel label set – other customizable options available on request).

PGI Variant	Part Number	Positions (Grades)	Actuation Type	Typical Use Case / Application
Basic – 10 Position PGI	F2030150-XX	10	Mechanical only – product grade indicator dial, no integrated air	Standard fuel fleets with 4–6 compartments; OEMs using central control panels but needing clear grade identification at each API adaptor.
Basic – 20 Position PGI	F2030250-XX	20	Mechanical only – product grade indicator dial, no integrated air valve	Multi-fuel or multi-contract fleets requiring a wide range of fuel-grade labels, without changing truck hardware. Pairs with existing remote-control cabinets.
Pneumatic – 10 Position PGI	F2030120-XX	10	Integrated pneumatic control with push/pull air valve + visual	Modern fleets aiming to simplify operations: merges grade selection and Footvalve control at each loading point, covering standard fuel grade ranges.
Pneumatic – 20 Position PGI	F2030210-XX	20	Integrated pneumatic control with push/pull air valve + visual indicator	Maximally flexible fleets (e.g. trucks serving multiple contracts or fuel types). Provides the highest number of grade options plus full local control at each compartment.

Technical Specifications

- **Construction:** Body and components in stainless steel, hard-anodized aluminum, and Delrin (acetal polymer) for strength, corrosion resistance, and low weight.
- **Sealing:** Viton™ fluoroelastomer seals standard.
- **Operating Pressure (Pneumatic models):** Standard vehicle air supply up to 10 bar (145 psi) for actuation. Designed to integrate with typical tanker pneumatic systems. Basic models require no air supply.
- **Operating Temperature:** -20°C to +70°C; Low-temperature seal options available for extreme environments.
- **Weight:** Approximately 1.2 kg (2.6 lbs) per unit – lightweight to support tanker payload optimization goals.
- **Mounting & Compatibility:** Compatible with sequenced Emco Wheaton Footvalve assemblies. An adjustable mounting bracket is supplied as standard.

Please consult Emco Wheaton for any requirements relating to customised labels or private branding.

Typical Applications

The Emco Wheaton PGI adds value to a variety of fuel delivery vehicles and scenarios:

Fuel Distribution Tankers (Petrol & Diesel): Ensure correct grade selection for each compartment in bulk retail and commercial fuel deliveries (e.g. service station replenishment, commercial fuel supply). Misfuelling prevention is critical when multiple grades (premium/unleaded, road diesel/heating oil, etc.) are carried on one vehicle.

Multi-Contract Operations: 20-position PGIs excel for contract carriers or fleet operators handling different customers' products on back-to-back trips. The expanded grade selection lets a driver easily switch grade labels when picking up a return load or servicing diverse accounts – without needing to physically swap labels or hardware.

Aviation Fueling Trailers: PGIs can accommodate specialized labelling (Jet-A, Avgas variants) on aviation refuelling trucks or trailers.

Retrofitting & Upgrades: Basic PGIs are ideal for upgrading existing tankers – they can be installed above the API couplers to instantly add a visible grade selection system with minimal modification. Pneumatic PGIs enable older fleets to adopt a modern, distributed Footvalve control approach for improved safety without redesigning the entire control system.



Quality & Compliance

Emco Wheaton's Product Grade Indicators are designed in line with global road tanker safety standards and industry best practices. With no electrical components, the PGI is intrinsically safe for use in hazardous fuel loading areas. All variants undergo extensive in-house testing to ensure reliable performance under real-world conditions of vibration, temperature extremes, and exposure to fuel products. The units are manufactured under strict quality control and backed by Emco Wheaton's over 100 years of experience in fuel systems for road tankers.

By integrating the PGI into your tanker build, you enhance the safety, efficiency, and reputation of your vehicles. Emco Wheaton stands behind the PGI with global customer support, ready to assist with selection, installation guidance, and aftersales service.

Partner with Emco Wheaton to deliver safer, smarter, and more efficient fueling solutions to your customers.

EMCO WHEATON

EMCO Wheaton

Unit K, Westwood Industrial Estate
Westwood, Margate, CT9 4JR, UK
+441843221521

Gardner Denver Belgium

Washford Industrial, Luithagen-Haven 7
2030 Antwerpen, Belgium
+3235415040

Gardner Denver Germany

Niederlassung, Am Dorn 14
48308 Senden, Germany
+49253634840

Gardner Denver Spain

Avd. Alemania, 2-4 edif. B
28821 Coslada, Madrid
+34916499200

Gardner Denver France

42 Rue du Montmurier
38070 Saint-Quentin-Fallavier, France
+33474941673

Gardner Denver Netherlands

Barwoutswaarder 3-B
3449 HE, Woerden, Netherlands
+31348410150

Gardner Denver UK

Cross Ln, Tong, Birkenshaw
Bradford, BD11 2BY, UK
+441274683131

Hibon

2, avenue Jean-Paul Sartre
59290 Wasquehal, France
+33320453939

Robuschi

Via S. Leonardo, 71/A
43122 Parma, Italy
+390521274911



Transport Solutions

About Emco Wheaton.

At EMCO Wheaton, we specialize in designing and manufacturing cutting-edge fuel systems and components that revolutionize the way industries handle and transfer fuel. With decades of expertise and a commitment to innovation, we provide reliable and efficient solutions tailored to meet the unique demands of road transport, rail, aviation, bulk storage, and fleet fueling applications. From tank truck equipment to dry-break couplings, our products ensure safety, efficiency, and durability in even the most challenging environments.

Visit us at www.emcowheaton.com/fuel-systems/



www.emcowheaton.com/fuel-systems